

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: *Kipp et al.*
Appl. No.: Not yet assigned
Filed: Concurrently Herewith
For: PLANT *MSH2* SEQUENCES AND METHODS OF USE

STATEMENT IN SUPPORT OF FILING A
SEQUENCE LISTING UNDER 37 CFR § 1.821(f)

Commissioner for Patents
Washington, DC 20231

Sir:

I hereby state that the content of the paper and computer readable copies of the Sequence Listing, submitted concurrently herewith in accordance with 37 CFR § 1.821(c) and (e), are the same.

Respectfully submitted,

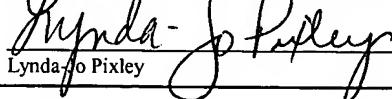


W. Murray Spruill
Attorney for Applicant
Registration No. 32,943

Alston & Bird LLP
Bank of America Plaza
101 South Tryon Street, Suite 4000
Charlotte, NC 28280-4000
Tel Raleigh Office (919) 420-2200
Fax Raleigh Office (919) 420-2260

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Lynda-Jo Pixley

0280
0420OIPE
4RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/029,065DATE: 01/15/2002
TIME: 08:08:02Input Set : A:\196219.txt
Output Set: N:\CRF3\01152002\J029065.raw

3 <110> APPLICANT: May, Gregory
 4 Baszczynski, Christopher
 5 Zhu, Tong
 6 Kipp, Peter
 7 Mahajan, Pramod
 9 <120> TITLE OF INVENTION: PLANT MSH2 SEQUENCES AND METHODS OF USE
 11 <130> FILE REFERENCE: 5839-2 (035839/196219)
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/029,065
 C--> 13 <141> CURRENT FILING DATE: 2001-12-20
 13 <160> NUMBER OF SEQ ID NOS: 42
 15 <170> SOFTWARE: PatentIn version 3.0
 17 <210> SEQ ID NO: 1
 18 <211> LENGTH: 3033
 19 <212> TYPE: DNA
 20 <213> ORGANISM: Nicotiana tabacum
 22 <220> FEATURE:
 23 <221> NAME/KEY: CDS
 24 <222> LOCATION: (22)..(2838)
 26 <400> SEQUENCE: 1

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 31 ctt ccc gag ctt aaa ctg gat gct aag caa gct caa gga ttt ctc tca 99
 32 Leu Pro Glu Leu Lys Leu Asp Ala Lys Gln Ala Gln Gly Phe Leu Ser
 33 15 20 25
 35 ttc ttc aaa acc ctg ccc aag gac cct agg gca gtt cgc ctc ttt gat 147
 36 Phe Phe Lys Thr Leu Pro Lys Asp Pro Arg Ala Val Arg Leu Phe Asp
 37 30 35 40
 39 cgt cgg gac tat tat aca tct cat gga gat gat gca act ttc att gca 195
 40 Arg Arg Asp Tyr Tyr Ser His Gly Asp Asp Ala Thr Phe Ile Ala
 41 45 50 55
 43 gag aca tat tac cac aca aca act gcg tta cga cag ttg ggt aat aga 243
 44 Glu Thr Tyr Tyr His Thr Thr Ala Leu Arg Gln Leu Gly Asn Arg
 45 60 65 70
 47 gct gat gcc ctt tcc agt gtt agt gtg agt aga aac atg ttt gaa aca 291
 48 Ala Asp Ala Leu Ser Ser Val Ser Val Arg Asn Met Phe Glu Thr
 49 75 80 85 90
 51 ata gct cgt gac att ctc ttg gag aga atg gac cgt act ctt gaa cta 339
 52 Ile Ala Arg Asp Ile Leu Leu Glu Arg Met Asp Arg Thr Leu Glu Leu
 53 95 100 105
 55 tat gag ggc agt ggt tca aac tgg aga ctg gta aaa agt gga acc cca 387
 56 Tyr Glu Gly Ser Gly Ser Asn Trp Arg Leu Val Lys Ser Gly Thr Pro
 57 110 115 120
 59 ggg aat ctt gga agt ttt gag gat att ctg ttt gct aat aat gaa atg 435
 60 Gly Asn Leu Gly Ser Phe Glu Asp Ile Leu Phe Ala Asn Asn Glu Met
 61 125 130 135
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68	Gly	Cys	Glu	Val	Gly	Leu	Gly	Tyr	Val	Asp	Ile	Thr	Lys	Arg	Val	Leu	
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71	ggt	tta	aca	gaa	ttt	cta	gat	gat	agc	cac	ttc	aca	aat	ttg	gag	tct	579
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75	gct	ttg	gct	ctt	ggt	tgc	aga	gaa	tgt	ctt	gta	cca	gcg	gag	act		627
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77						190					195					200	
79	ggc	aaa	tcc	agt	gaa	tac	agg	cct	atg	ttt	gat	gca	ata	tct	aga	tgc	675
80	Gly	Lys	Ser	Ser	Glu	Tyr	Arg	Pro	Met	Phe	Asp	Ala	Ile	Ser	Arg	Cys	
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83	ggc	gtg	atg	gta	act	gaa	aga	aag	aaa	act	gaa	ttt	aaa	ggg	aga	gat	723
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87	ttg	gta	cag	gat	ctt	ggt	agg	ctc	gtc	aag	ggt	tca	gta	gaa	cct	gtt	771
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91	cga	gat	ttg	gtc	tct	ggg	ttc	gaa	tgt	gca	tca	ggc	gct	ttg	ggg	tgc	819
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113						335					340					345	
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135	gaa	agg	tat	att	gat	tct	cta	gag	aaa	tgg	agt	gat	gat	aat	cac	ctg	
136	Glu	Arg	Tyr	Ile	Asp	Ser	Leu	Glu	Lys	Trp	Ser	Asp	Asp	Asn	His	Leu	
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139	aat	aag	ttc	ata	ggt	ctt	gtg	gaa	act	tct	gtt	gac	ctt	gat	caa	ctt	1395
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143	gag	aat	gga	gaa	tac	atg	att	tct	tct	gca	tat	gac	cca	aat	tta	tct	1443
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147	gct	ctg	aag	gat	gag	caa	gag	aca	ttg	gag	cga	caa	att	cat	aat	ttg	1491
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179	ctg	agt	ttt	gca	ggt	ata	gct	ggt	gta	ctt	gct	gag	ttg	gat	gtg	tta	1875
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187	agg	cat	cct	tgt	gtg	gaa	gct	caa	gat	tgg	gtt	aac	tcc	att	cct	aat	1971
188	Arg	His	Pro	Cys	Val	Glu	Ala	Gln	Asp	Trp	Val	Asn	Ser	Ile	Pro	Asn	
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204	Ile	Ser	Ile	Arg	Asp	Cys	Ile	Phe	Ala	Arg	Val	Gly	Ala	Gly	Asp	Cys	
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207	cag	ctg	aga	gga	gtt	tct	act	ttt	atg	caa	gag	atg	ctt	gag	act	gca	2211
208	Gln	Leu	Arg	Gly	Val	Ser	Thr	Phe	Met	Gln	Glu	Met	Leu	Glu	Thr	Ala	
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212	Ser	Ile	Leu	Lys	Gly	Ala	Thr	Asp	Arg	Ser	Leu	Ile	Ile	Ile	Asp	Glu	
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220	Ile	Cys	Glu	His	Ile	Val	Glu	Glu	Ile	Lys	Ala	Pro	Thr	Leu	Phe	Ala	
221					765				770				775				
223	act	cac	ttt	cat	gag	ctg	act	gca	tta	gcc	aac	aag	aat	gga	gac	aat	2403
224	Thr	His	Phe	His	Glu	Leu	Thr	Ala	Leu	Ala	Asn	Lys	Asn	Gly	Asp	Asn	
225					780				785				790				
227	gga	cat	aag	aaa	aat	gct	ggg	ata	gca	aat	ttt	cat	gtt	ttt	gca	cac	2451
228	Gly	His	Lys	Asn	Ala	Gly	Ile	Ala	Asn	Phe	His	Val	Phe	Ala	His		
229	795				800				805				810				
231	att	gac	cct	tct	aat	cgc	aag	cta	act	atg	ctt	tac	aag	gtt	cac	cca	2499
232	Ile	Asp	Pro	Ser	Asn	Arg	Lys	Leu	Thr	Met	Leu	Tyr	Lys	Val	His	Pro	
233					815				820				825				
235	ggt	gct	tgt	gat	cag	agt	ttt	ggt	att	cat	gtt	gct	gaa	ttt	gca	aat	2547
236	Gly	Ala	Cys	Asp	Gln	Ser	Phe	Gly	Ile	His	Val	Ala	Glu	Phe	Ala	Asn	
237					830				835				840				
239	ttt	cca	ccg	agt	gtt	gtg	gct	ctg	gct	aga	gaa	aag	gca	tct	gag	ttg	2595
240	Phe	Pro	Pro	Ser	Val	Val	Ala	Leu	Ala	Arg	Glu	Lys	Ala	Ser	Glu	Leu	
241					845				850				855				
243	gag	gat	ttc	tct	cct	att	gcc	ata	att	cca	aat	gac	att	aaa	gag	gca	2643
244	Glu	Asp	Phe	Ser	Pro	Ile	Ala	Ile	Ile	Pro	Asn	Asp	Ile	Lys	Glu	Ala	
245					860				865				870				
247	gct	tca	aaa	cgg	aag	aga	gaa	ttt	gac	cgc	cat	gac	gtg	tct	aga	ggt	2691
248	Ala	Ser	Lys	Arg	Lys	Arg	Glu	Phe	Asp	Arg	His	Asp	Val	Ser	Arg	Gly	
249	875				880				885				890				
251	act	gcc	aga	gct	cgg	caa	ttc	tta	cag	gat	ttc	gct	cag	ttg	cca	ctg	2739
252	Thr	Ala	Arg	Ala	Arg	Gln	Phe	Leu	Gln	Asp	Phe	Ala	Gln	Leu	Pro	Leu	
253					895				900				905				
255	gat	aag	atg	gat	cca	aac	gtg	gtc	agg	caa	aag	ttg	agc	aaa	atg	aaa	2787
256	Asp	Lys	Met	Asp	Pro	Asn	Val	Val	Arg	Gln	Lys	Leu	Ser	Lys	Met	Lys	
257					910				915				920				
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260 Thr Asp Leu Glu Arg Asp Ala Val Asp Ser His Trp Leu Gln Gln Phe
261 925 930 935
263 ttt taattcttca gattagaact atcttctatt ctgtgaagct tgggggggaa 2888
264 Phe
267 tgatacttat gggttttgtg gatataactt agcctatctg taaacttca tttaaatcct 2948
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274 <210> SEQ ID NO: 2
275 <211> LENGTH: 939
276 <212> TYPE: PRT
277 <213> ORGANISM: Nicotiana tabacum
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286 20 25 30
289 Lys Asp Pro Arg Ala Val Arg Leu Phe Asp Arg Arg Asp Tyr Tyr Thr
290 35 40 45
293 Ser His Gly Asp Asp Ala Thr Phe Ile Ala Glu Thr Tyr Tyr His Thr
294 50 55 60
297 Thr Thr Ala Leu Arg Gln Leu Gly Asn Arg Ala Asp Ala Leu Ser Ser
298 65 70 75 80
301 Val Ser Val Ser Arg Asn Met Phe Glu Thr Ile Ala Arg Asp Ile Leu
302 85 90 95
305 Leu Glu Arg Met Asp Arg Thr Leu Glu Leu Tyr Glu Gly Ser Gly Ser
306 100 105 110
309 Asn Trp Arg Leu Val Lys Ser Gly Thr Pro Gly Asn Leu Gly Ser Phe
310 115 120 125
313 Glu Asp Ile Leu Phe Ala Asn Asn Glu Met Gln Asn Ser Pro Val Ile
314 130 135 140
317 Ala Ala Leu Ala Pro Asn Phe Gly Gln Asn Gly Cys Glu Val Gly Leu
318 145 150 155 160
321 Gly Tyr Val Asp Ile Thr Lys Arg Val Leu Gly Leu Thr Glu Phe Leu
322 165 170 175
325 Asp Asp Ser His Phe Thr Asn Leu Glu Ser Ala Leu Val Ala Leu Gly
326 180 185 190
329 Cys Arg Glu Cys Leu Val Pro Ala Glu Thr Gly Lys Ser Ser Glu Tyr
330 195 200 205
333 Arg Pro Met Phe Asp Ala Ile Ser Arg Cys Gly Val Met Val Thr Glu
334 210 215 220
337 Arg Lys Lys Thr Glu Phe Lys Gly Arg Asp Leu Val Gln Asp Leu Gly
338 225 230 235 240
341 Arg Leu Val Lys Gly Ser Val Glu Pro Val Arg Asp Leu Val Ser Gly
342 245 250 255
345 Phe Glu Cys Ala Ser Gly Ala Leu Gly Cys Ile Leu Ser Tyr Ala Glu
346 260 265 270
349 Leu Leu Ala Asp Glu Ser Asn Tyr Gly Asn Tyr Thr Val Lys Gln Tyr
350 275 280 285
353 Asn Leu Asn Ser Tyr Met Arg Leu Asp Ser Ala Ala Met Arg Ala Leu

Use of n and/or Xaa has been detected in the Sequence Listing.
Review the Sequence Listing to insure a corresponding
explanation is presented in the <220> to <223> fields of
each sequence using n or Xaa.

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/029,065

DATE: 01/15/2002
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L:13 M:270 C: Current Application Number differs, Replaced Current Application No
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:1029 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:1054 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:1058 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:1073 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1098 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:1102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:1121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:1136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:1161 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:1165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:1180 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:1205 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:1329 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:1423 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29
L:1444 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30